


# SWBAT

Identify which math skills  
still need work for  
physics

Sep 4-7:31 AM

SECA CP Physics  
Thursday 3 March 2016

## Welcome!!!



PEDs with Passing

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Room C-244

Centering  
(music)

- Show me SchoolView if you want phone in class...

**Opening Activity - Quick Write:**

Why bother learning physics?

- PRACTICE MEASURING
- CAREERS
- UNDERSTAND WORLD
- GRADUATE

[courses.district287.org](http://courses.district287.org)

- LOGIN (SAME AS GETTING ON COMPUTER)
- COURSES "PHYSICS READINESS"
  - CLICK EdReady ASSESSMENT LINK - GREBE
- ADD KEY: physicsgrebe2

⇒ CURRENT "ANGLES" MATH SKILLS

Sep 7-7:04 AM

## What we should have solid:

Memorize our ~~5~~<sup>8</sup> vocab cards, units, vector or not, definition, formula

Be able to answer distance vs displacement questions

Be able to make measurements of real-life motion. Know what is likely to make timing things difficult and how to get more reliable timing results

Be able to convert between miles and meters, between hours, minutes, and seconds

Be able to calculate speed = dist/time and velocity = disp/time

Know what all of the symbols in the UAM equations stand for and mean

Be able to turn a UAM word problem into a list of knowns and unknowns

Be able to pick the equation with those 4 things in it

Be able to put the knowns into that equation

(Be able to solve for the unknown)

→ PROJECTILES:  $v_x$  IS CONSTANT;  $a_y = -9.8 \text{ m/s}^2$   <sup>$v_y$  CHANGES</sup> PG 42

PG 43 TIME,  $\Delta t$ , CONNECTS  $x$  &  $y$

PG 49 VECTORS INTO  $x$  &  $y$ , ADD VECTORS  
SOH - CAH - TOA

PG 59 DIFFERENCE BETWEEN MASS & WEIGHT

PG 61 NET FORCE

PG 63 FREE BODY DIAGRAMS

$$F = m \cdot a$$

QW every day to review - gather responses to front board.

Dec 4-9:15 AM

Unit	Left-Side Items	Page	Right-Side Items	Page
	REFLECTION ON NOTES	2	EDITED ADAM SAUGE	3
	HOW FAR FROM BRIDGE	4	"FORT STUEBEN"	5
	REFLECTION ON NOTES	6	HAWK: BASE UNITS	7
	PR: DISTANCE & DISPLACEMENT	8	HAWK: FP DISPLACEMENT	9
	DIAGRAM & STEPS	10	TIMING & ERROR	11
	SUMMARY OF TIMING	12	HOW TO BUILD A TABLE	13
	PR: CONVERTING SOLUTIONS	14	HAWK: FP CONVERSIONS	15
	PR: VELOCITY & SPEED	16	HAWK: FP SPEED & VELOCITY	17
	SPEED WORD PROBLEMS	18	ALGEBRA FOR PHYSICS	19
	LAB JOURNAL 10/7	20	LAB JOURNAL 10/8	21
	...		HAWK: FP GRAPH POSITION	23
	LAB JOURNAL 10/12	24	EXPERIMENT RUBRIC	25
	26 USE FOR PROJECT	26		
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	REVIEW FOR TEST	30	BALL ON RAMP	31
	VECTORS, DIRECTION	32	FP: BASIC ACC EXAMPLE	33
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	FALLING OBJECTS PACKET	36	FP: INTRO TO FREEFALL	37
	MY FREE FALL WORD PROBLEM	38	3-ACT FALLING GLOWSTICK	39
	Toy popper experiment	40	Free fall class solutions	41
	Launched vs. Dropped	42	FP: INTRO TO PROJECTILE MOTION	43
	PROJECTILE SIMULATOR	44	FP: PROJ. MOTION PROBLEM	45
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	OBSERVATIONS OF OBJECTS	54	RULES OF PHYSICS NOTES	55
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	PACKET: F.B.D.	62	FINDING FRICTION IN CART	65
	DATA/MEASURING CART	64		

Sep 5-9:09 AM

## Of Falling Coffee Filters....

Pg 68

- Find a partner
- Complete the experiment
- Reflect - how does this connect to the Physics we've been studying this quarter?

Mar 2-8:28 AM